



Davis Pond Freshwater Diversion Advisory Committee 2018 Meeting Wednesday, December 5, 2018





- Introduction
- 2017 Data Overview
- 2018 Operations and Maintenance
- 2019 Proposed Operational Plan
- 2019 Plan Discussion and Vote
- By-Laws Update Discussion



Davis Pond Facts

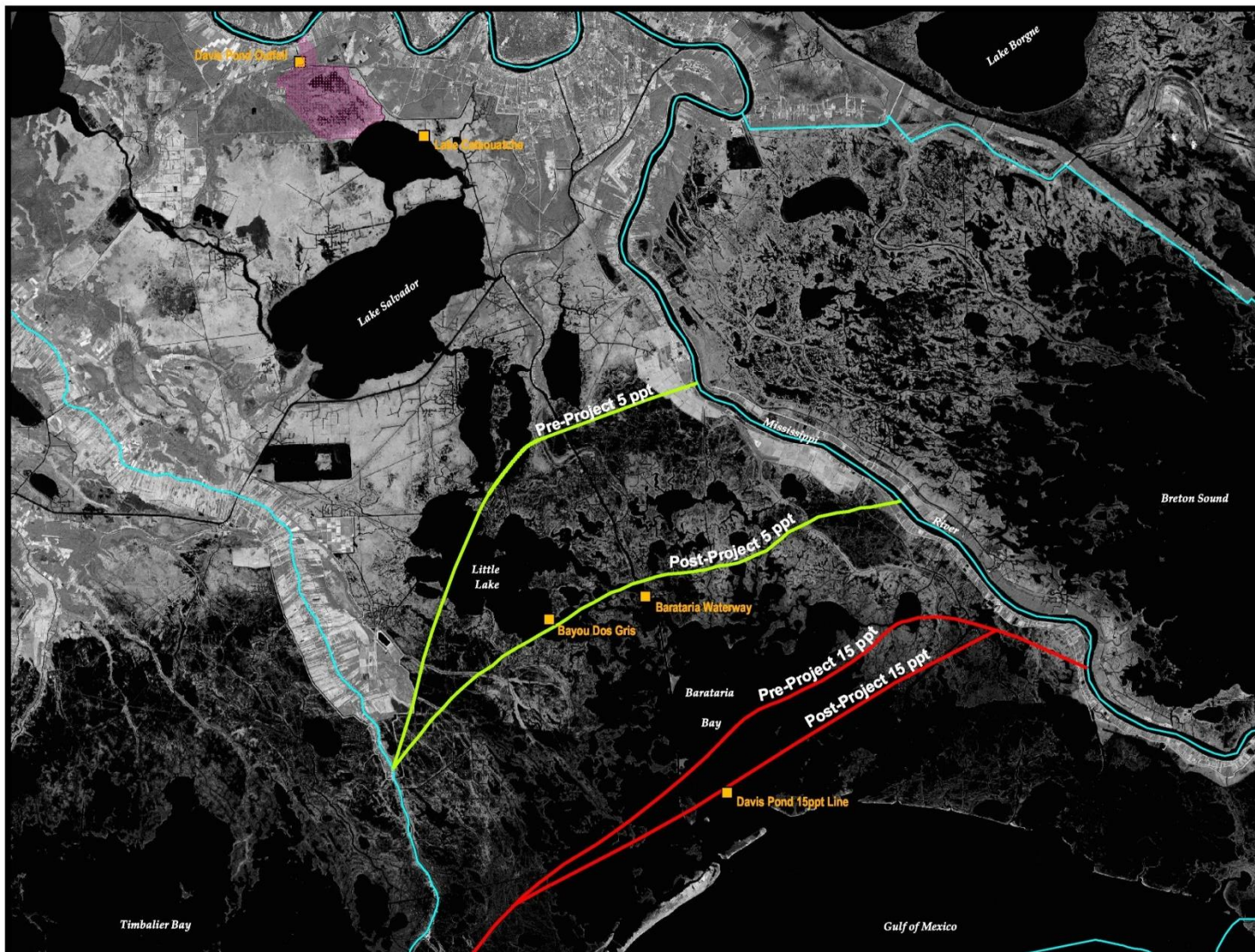
- **Flood Control Act 1965 and WRDA 1974**
- **Constructed by USACE, operated by CPRA**
- * **Four 14 ft² gated culverts**
- * **Discharge = 10,650 cfs**
- **Operational oversight by TWG/DPAC**
- **Online in 2002 (sort of)**





Project Features:

- Diversion Structure: 10,650 cfs (4,800,000 gpm) capacity
- Diversion Channel: 2.2 miles from river to ponding area
- Pump Station: 570 cfs (256,000 gpm) capacity
- Ponding Area: 9,311 acres (14.5 square miles)
- Containment Levees: 19 miles (channel + ponding area)
- Oyster leases: Relocated leases
- Rock Weir: 1.8 miles on Lake Cataouatche's north shore
(Ponding Area's outlet to Cataouatche)



Salinity Monitoring Stations and Isohalines in Barataria Basin

LEGEND

- Data Collection Platform (DCP)
- Pre-Project Isohaline
- Post-Project Isohaline
- Hydrologic Basin Boundary
- Davis Pond Project Boundary



5 0 5 Miles

5 0 5 10 Kilometers

Data Source:
 U.S. Geological Survey
 National Wetlands Research Center
 Coastal Restoration Field Station
 Louisiana Department of Natural Resources
 Coastal Restoration Division
 2000 TM Satellite Imagery
 Map Date: March 13, 2002
 Map ID: 2002-04-330



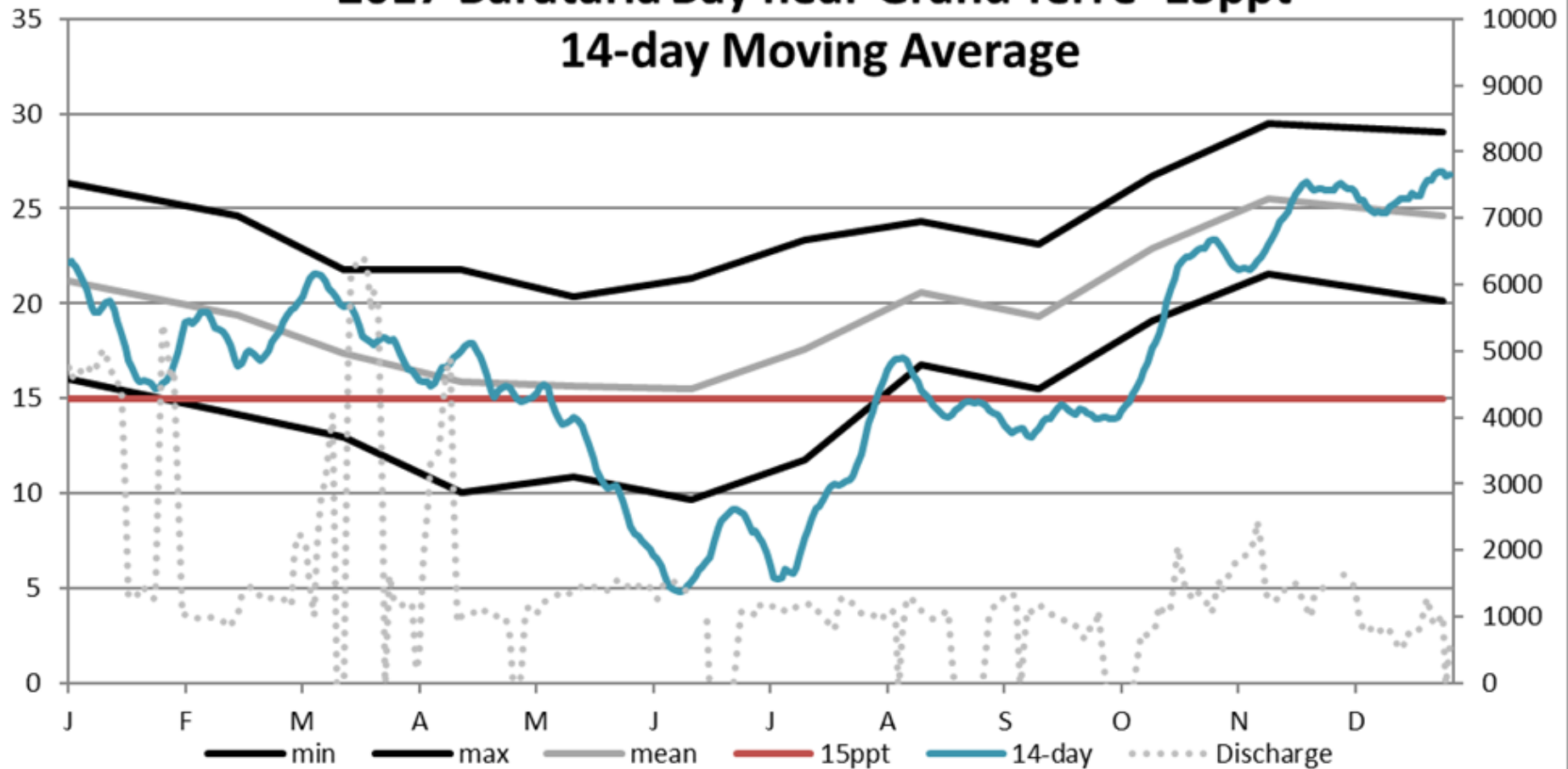
Davis Pond Goals

- Enhancement of emergent marsh vegetation growth
- Reduction of marsh loss
- Increase significant commercial and recreational fisheries productivity
- Increase significant commercial and recreational wildlife productivity

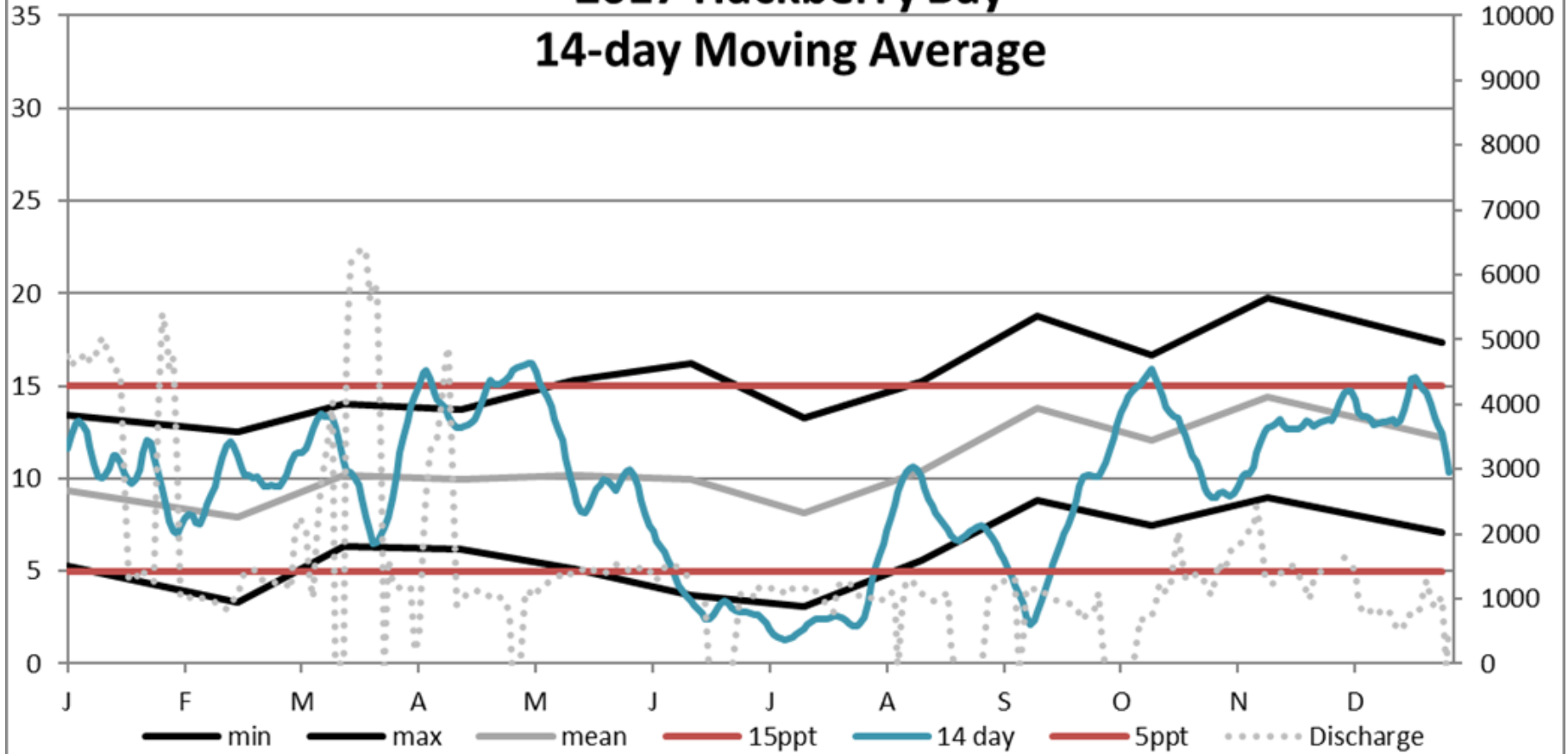


Data Overview 2017

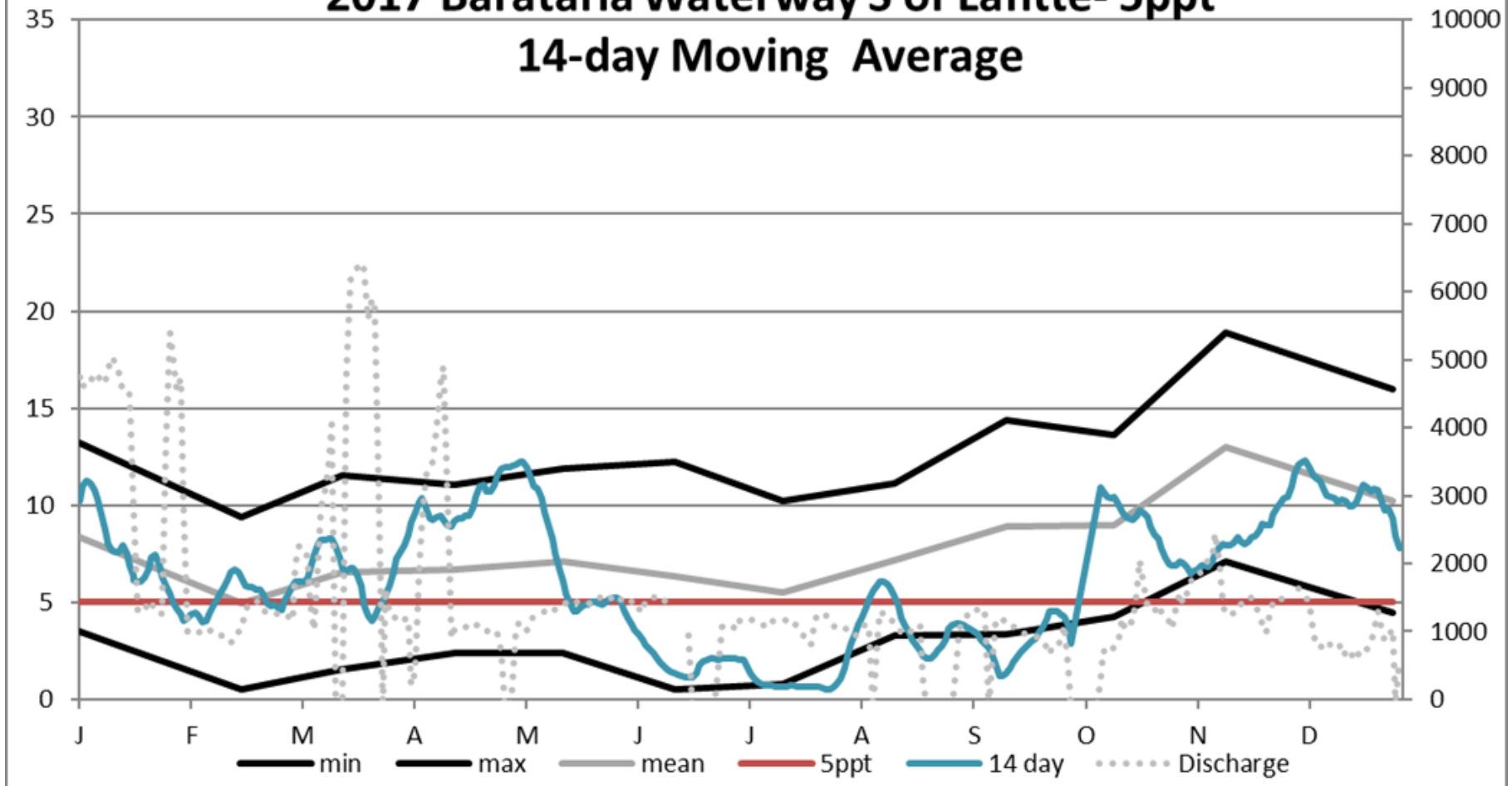
2017 Barataria Bay near Grand Terre- 15ppt 14-day Moving Average



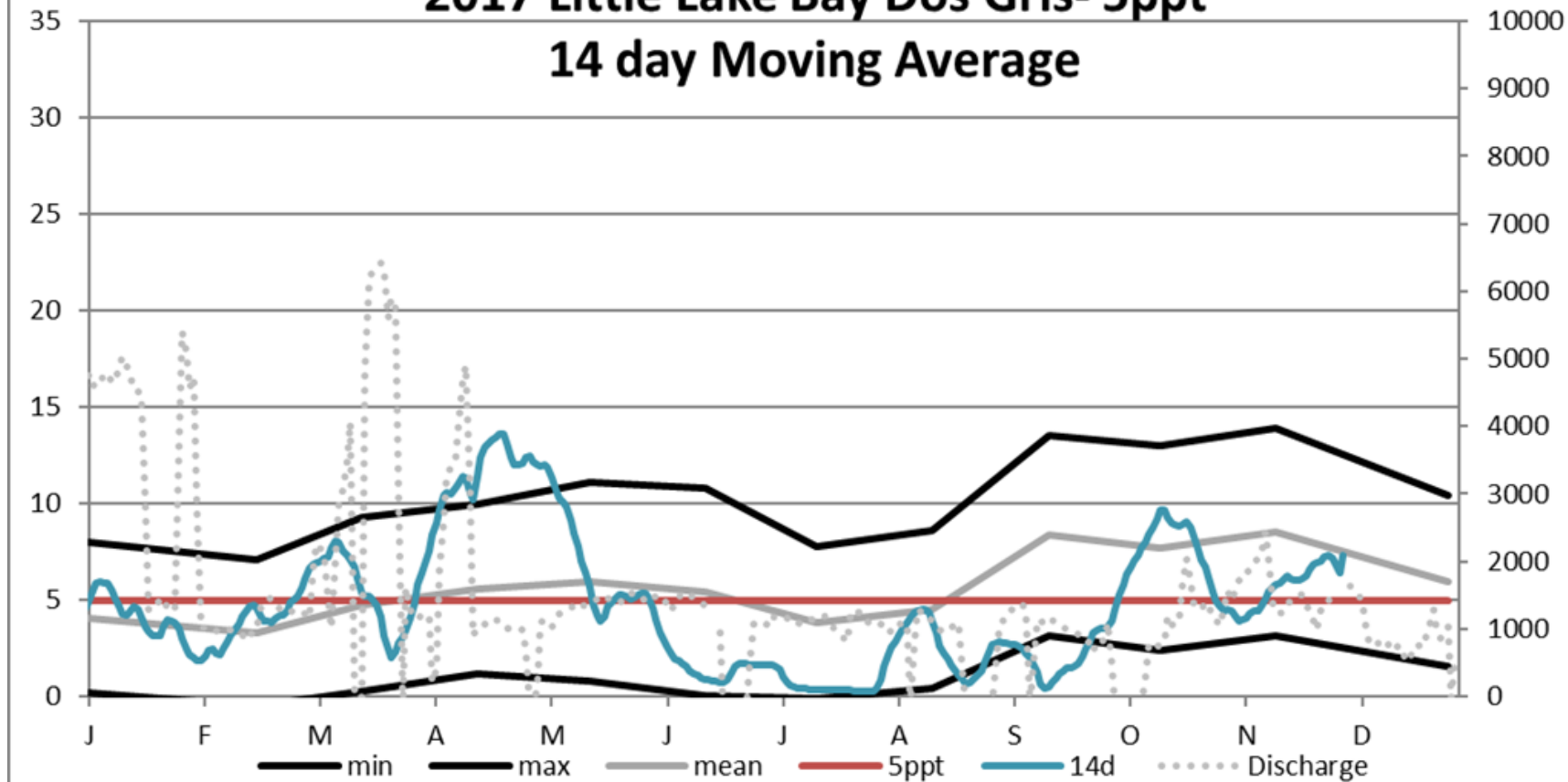
2017 Hackberry Bay 14-day Moving Average



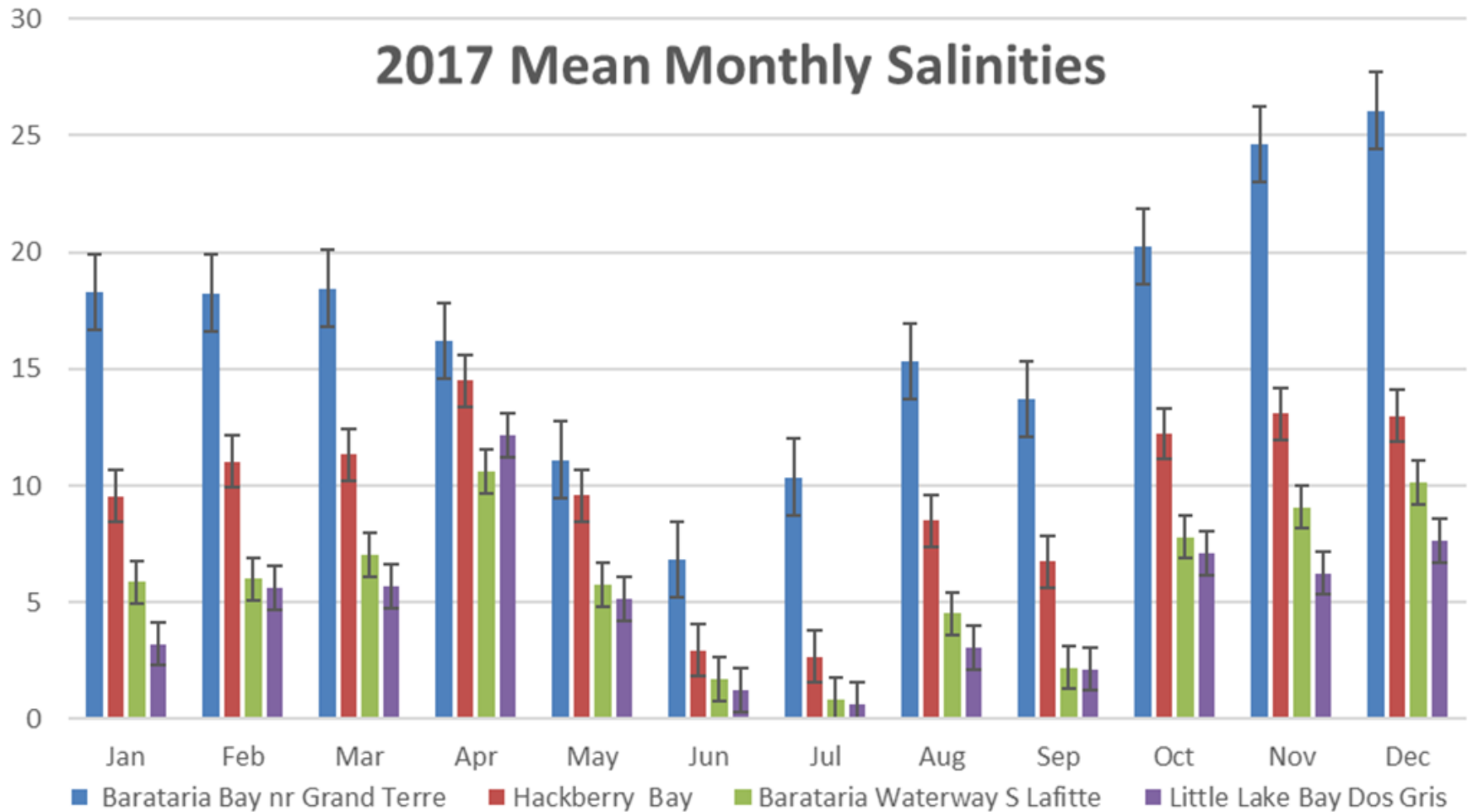
2017 Barataria Waterway S of Lafitte- 5ppt 14-day Moving Average



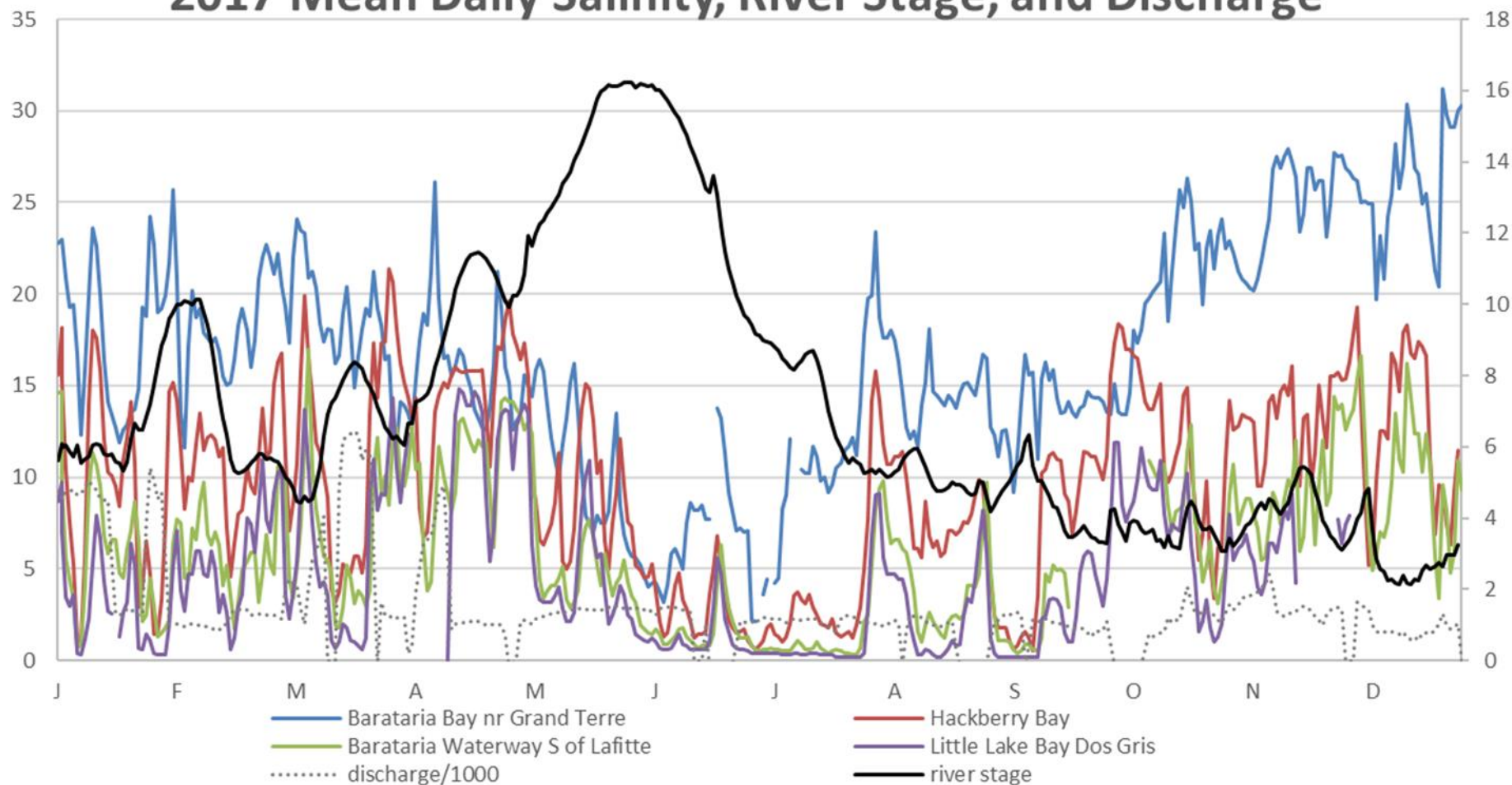
2017 Little Lake Bay Dos Gris- 5ppt 14 day Moving Average



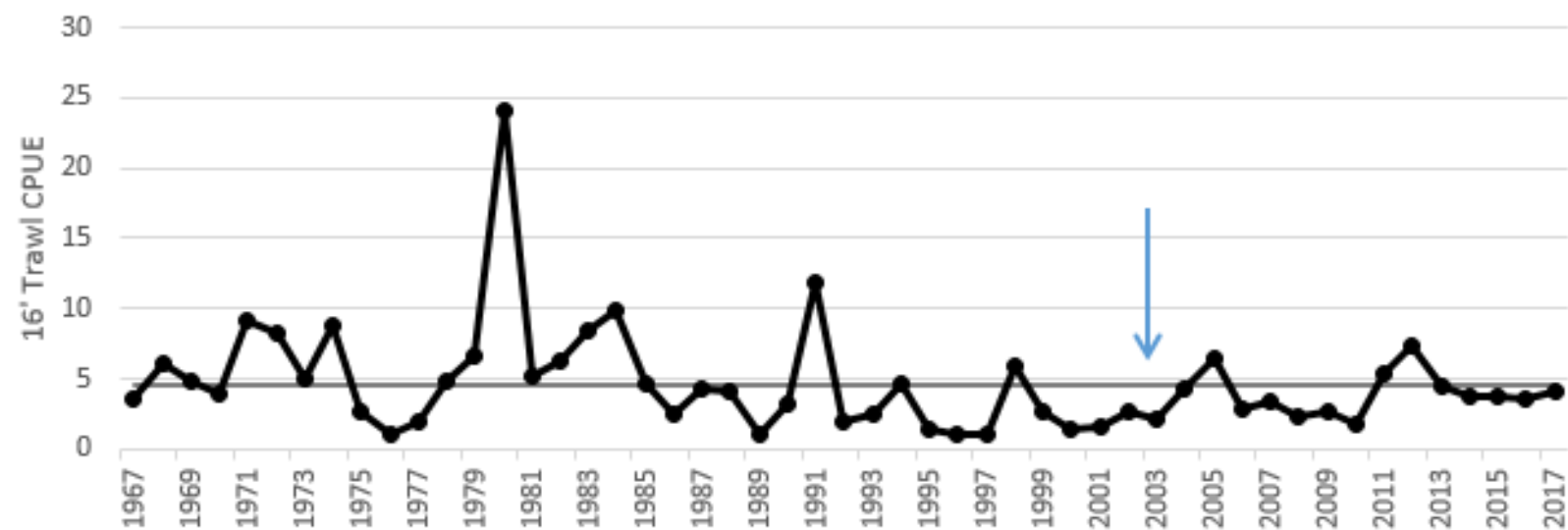
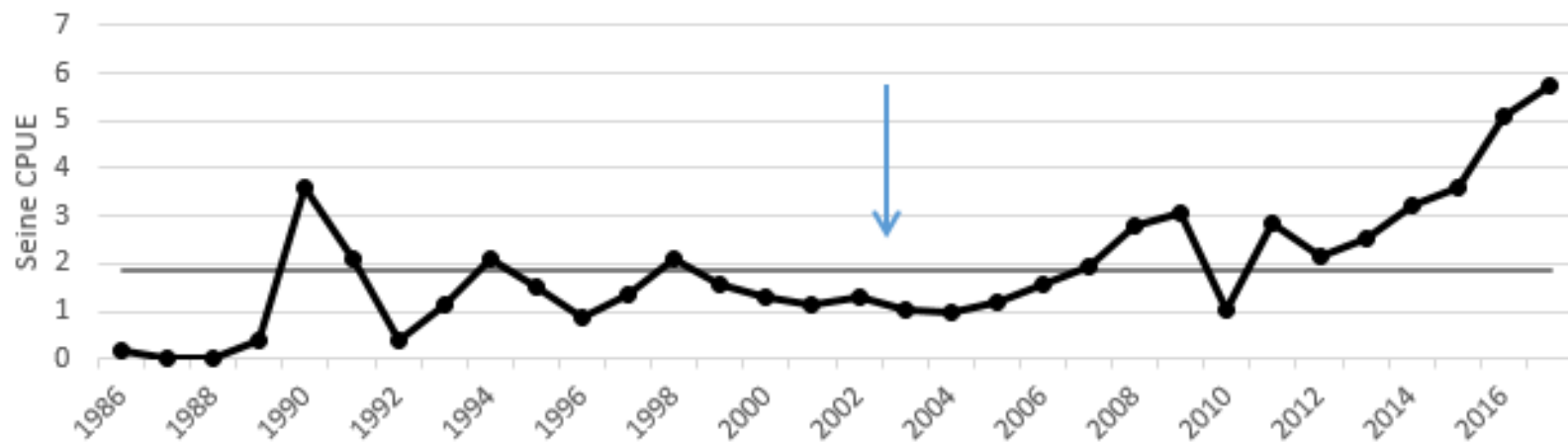
2017 Mean Monthly Salinities



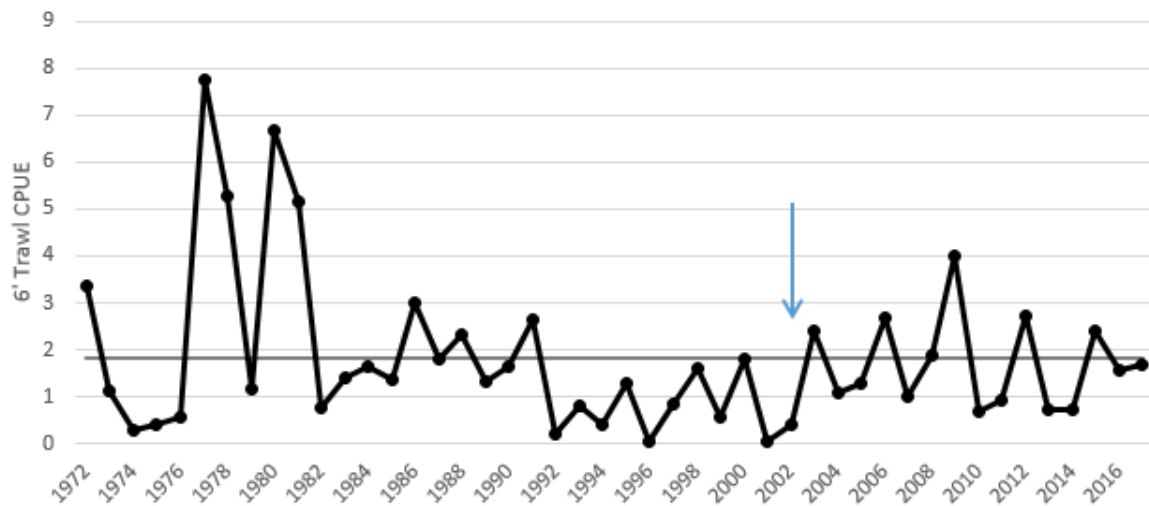
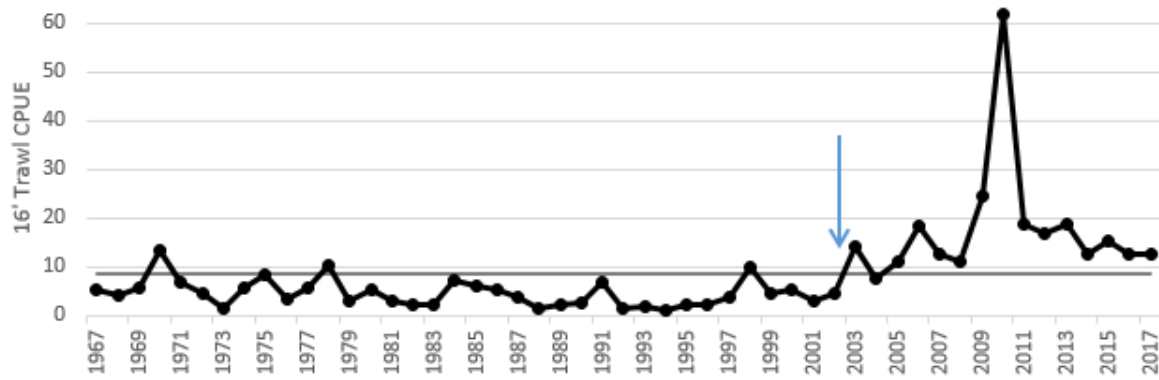
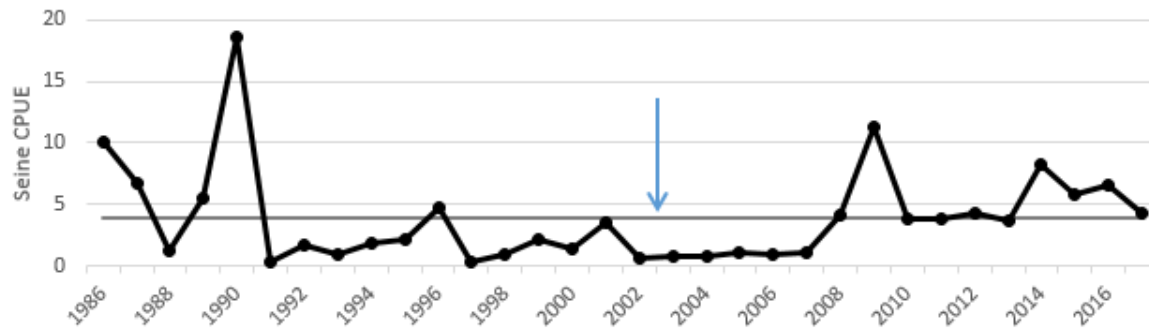
2017 Mean Daily Salinity, River Stage, and Discharge



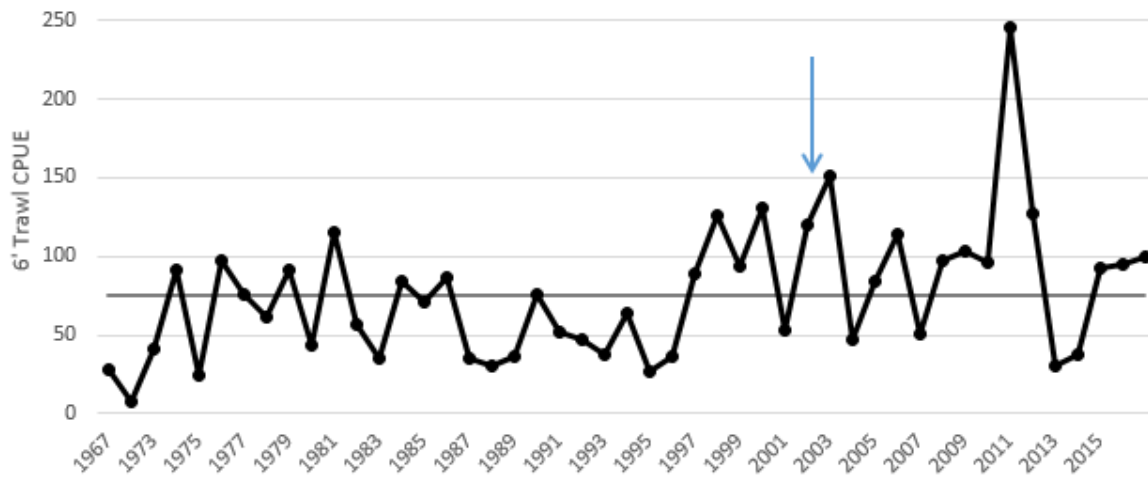
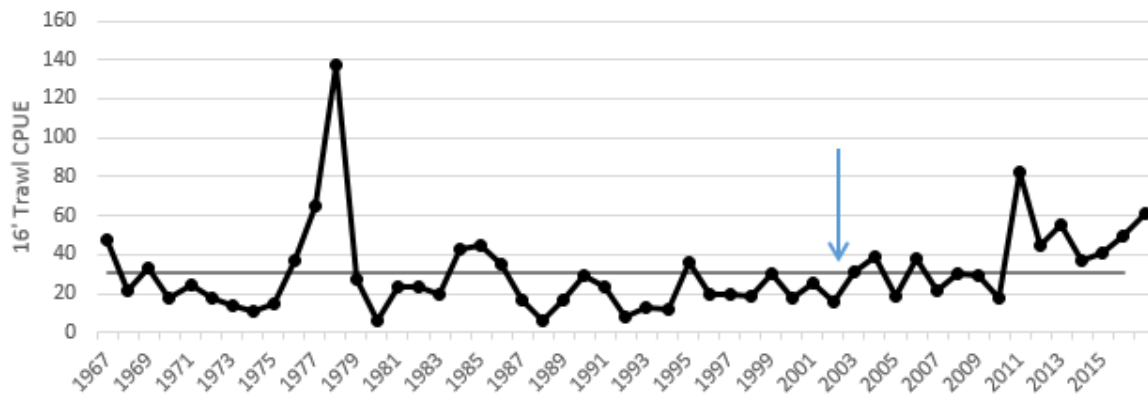
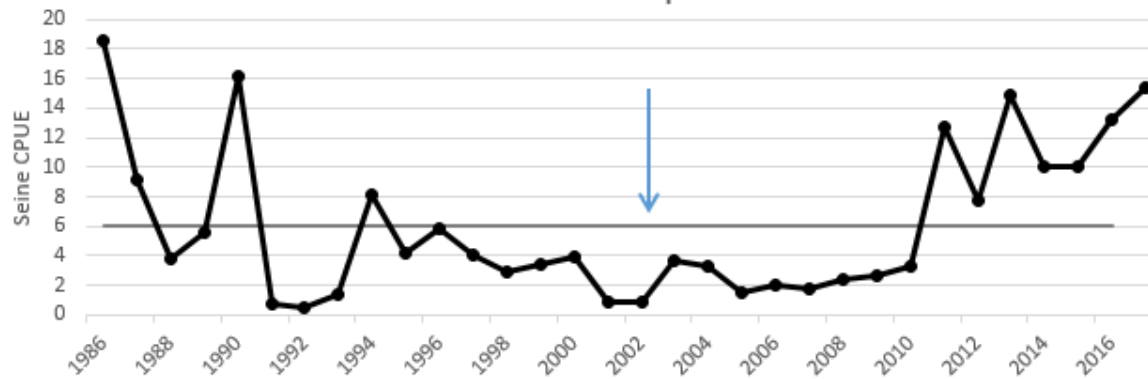
Blue Crab



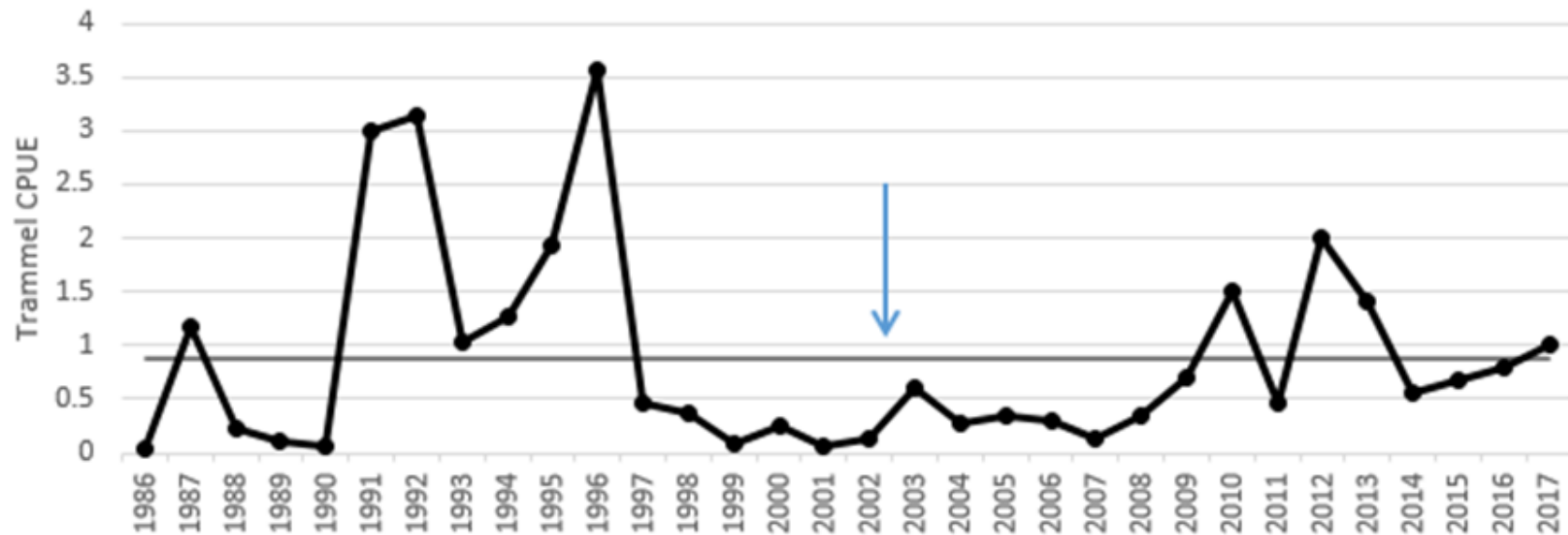
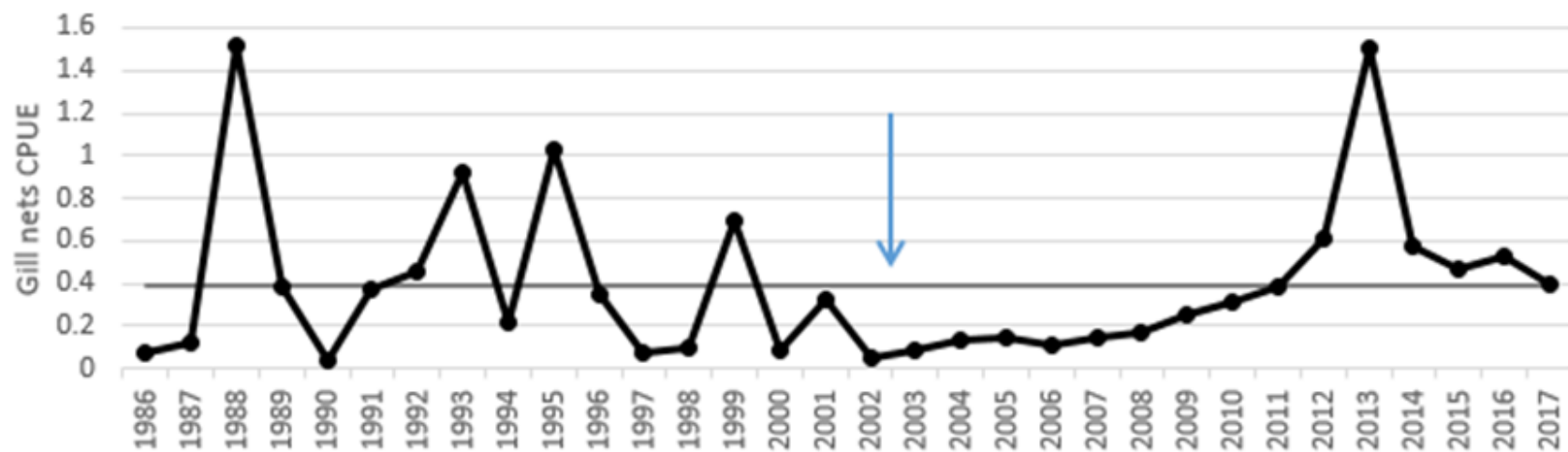
White Shrimp



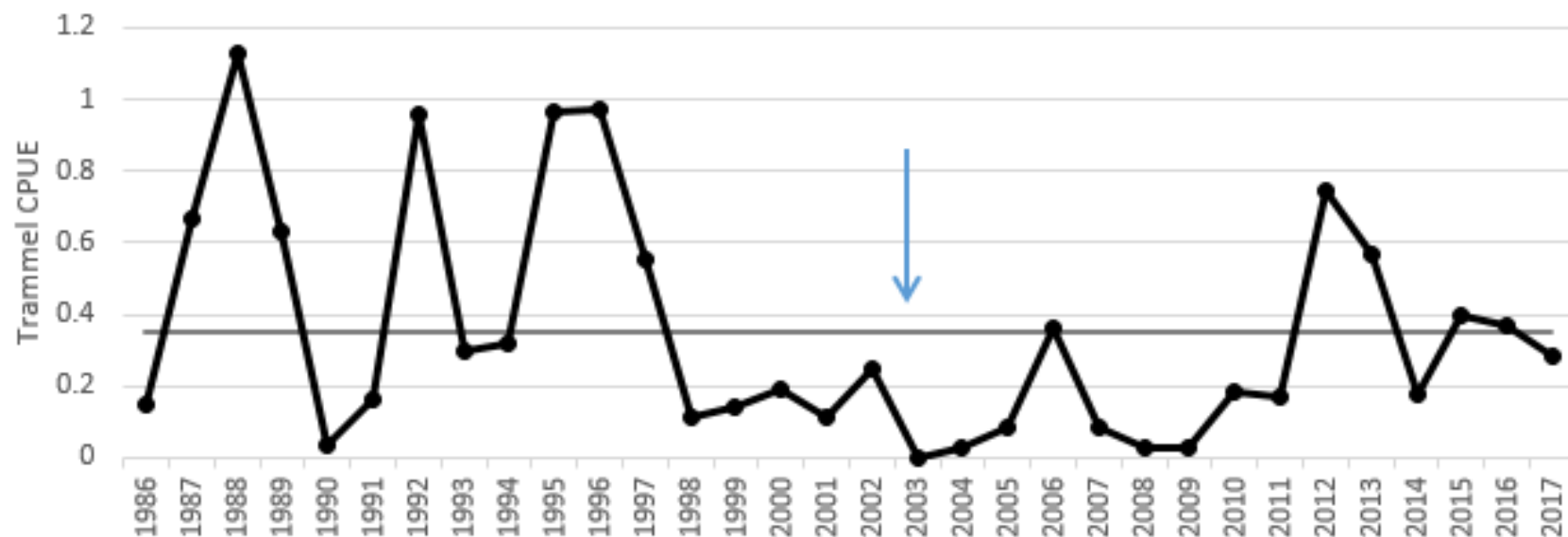
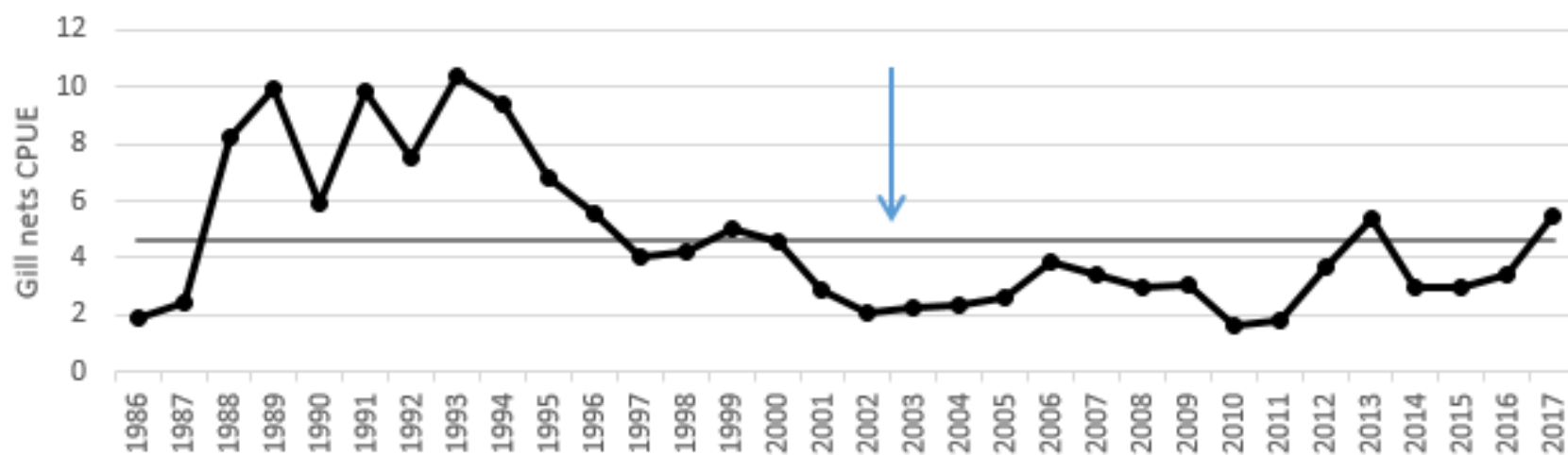
Brown Shrimp

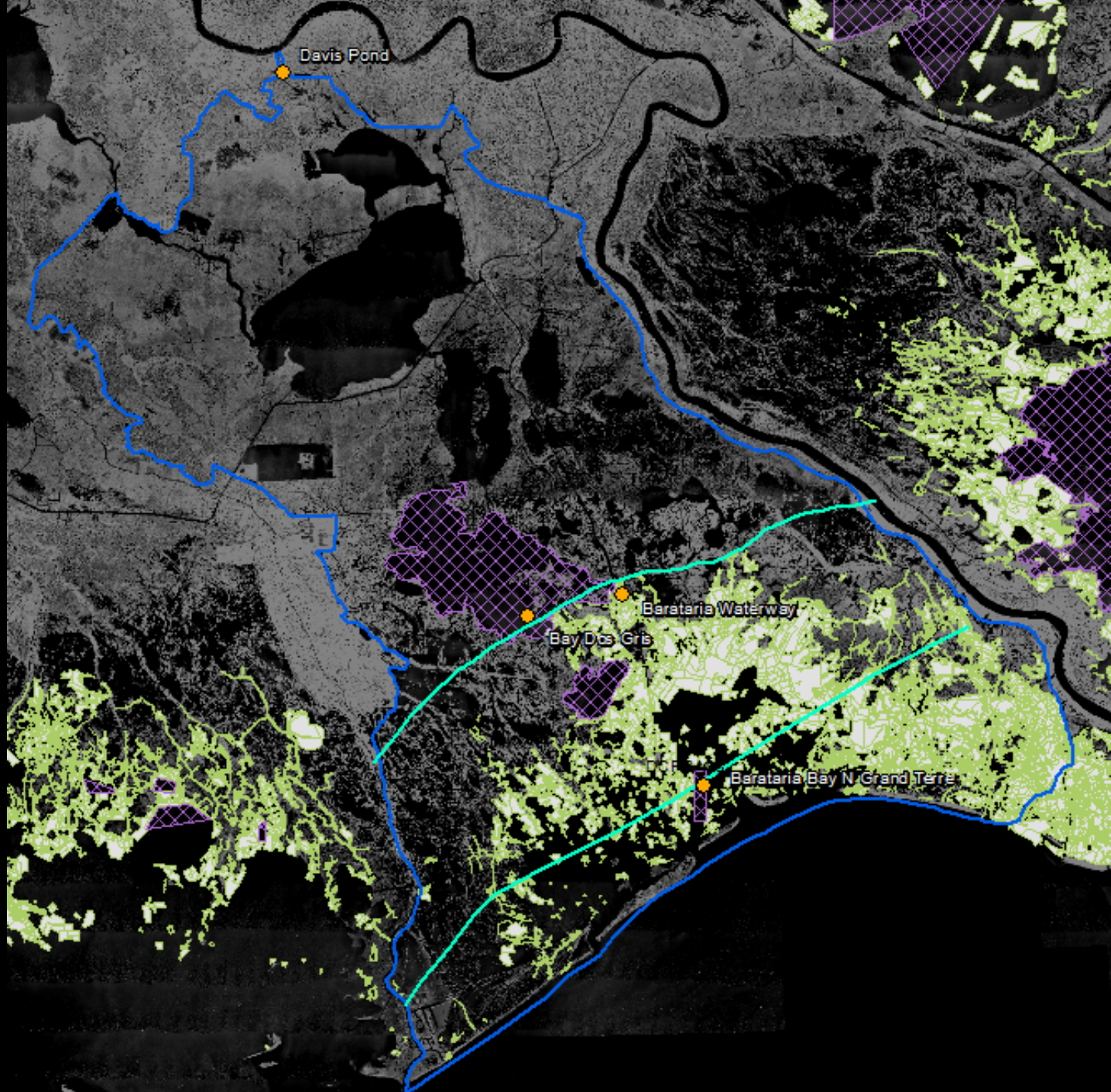


Red Drum



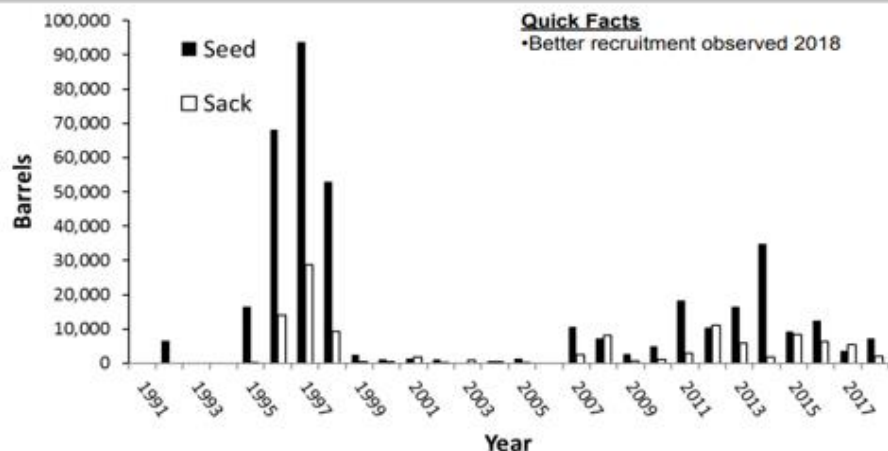
Spotted Seatrout





CSA 3 (Hackberry Bay)

2018
+105% seed
-63% sack
-4% total

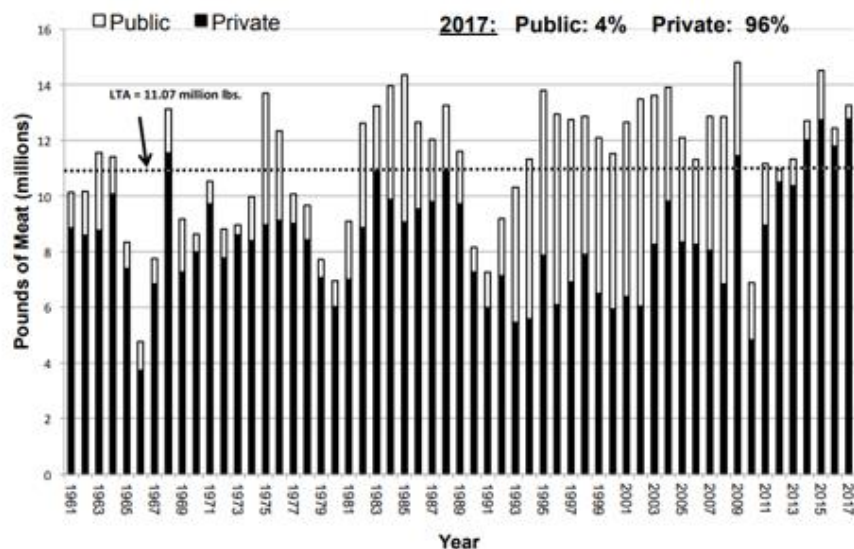


Area	Seed	Seed %	Sack	Sack %	Total	Total %
1N	49,320.8	-34.4%	30,663.5	+4.7%	79,984	-23%
1S	674	0%	0	-100%	674	-90%
3	7,275	+105%	1,983	-63%	9258	-4%
5E	452	-35%	0	0%	452	-35%
5W	48,358	-34%	22,146	+46%	70,507	-20%
Calcasieu	30,458	+35%	81,245	+56%	111,703	+50%
Total	136,539	-22%	136,038	+26%	272,577	-4%

All data excludes Sabine Lake

GREEN indicates increases over 2017 levels; **RED** indicates decreases
Availability in barrels (1 barrel = 2 sacks)

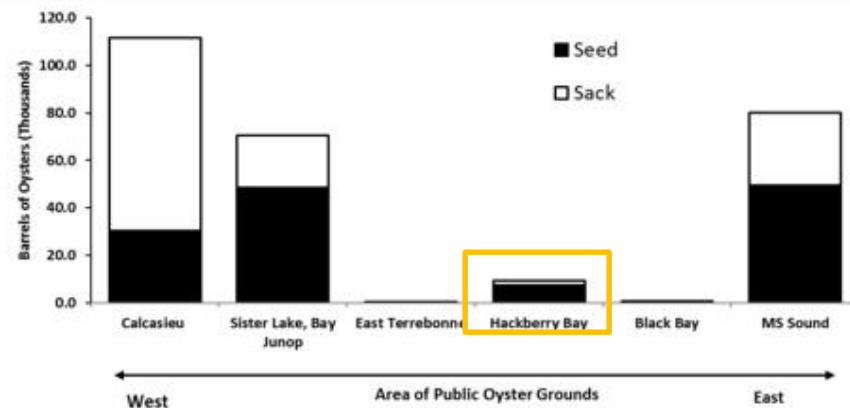
Historical Louisiana Oyster Landings



2018 Statewide Oyster Availability

2018 Stock Assessment Quick Facts

- Lowest stock size ever recorded in Louisiana
- Most Reefs degraded/lost in most areas open to seed harvest





2018 Operations & Maintenance

- Gates 2 & 3 were repaired



December-May: 15ppt line

- Barataria Grand Terre Gauge
- Hackberry Bay (public oyster grounds) utilized for supporting information and guidance



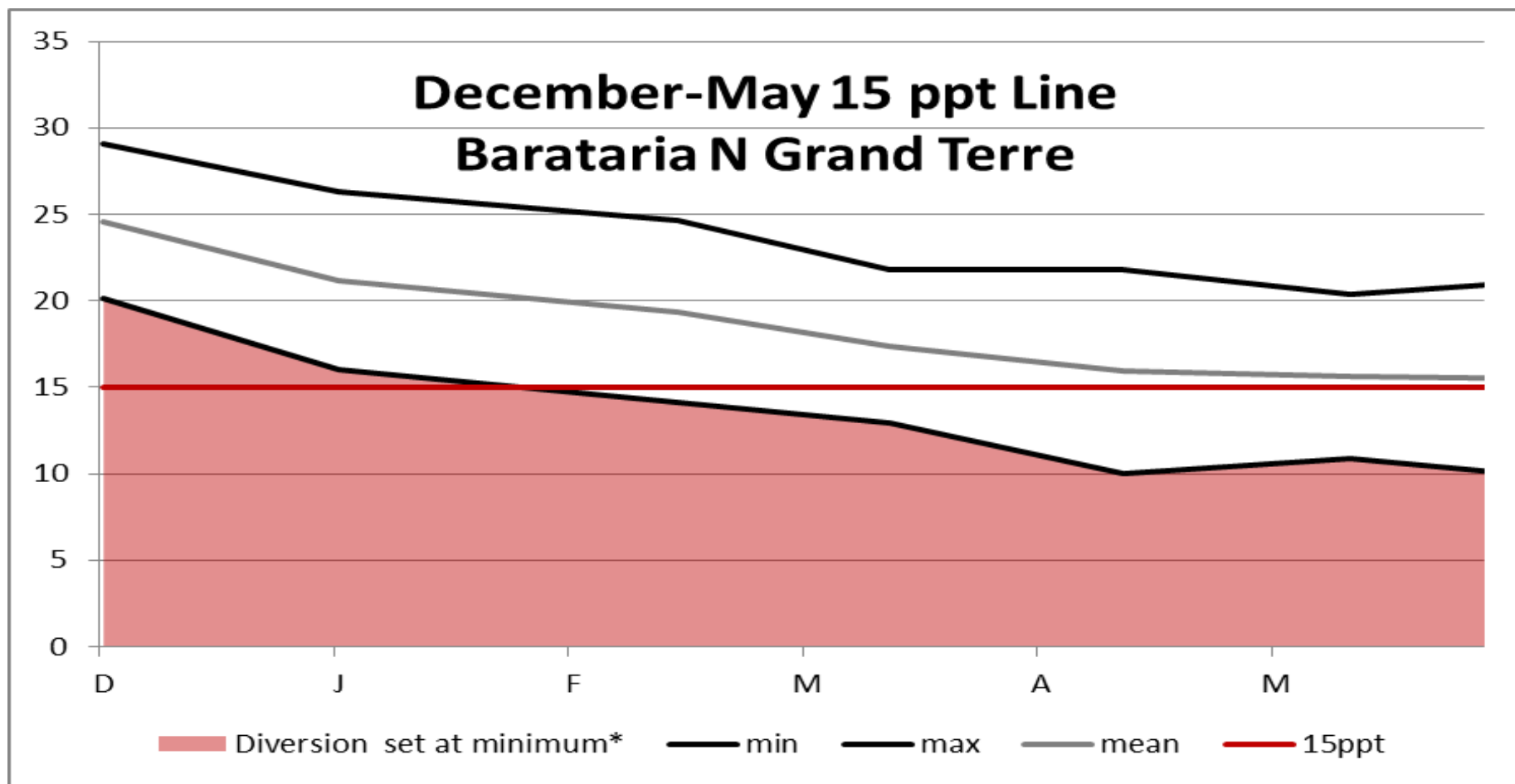


Figure 2. Long term average (+/- 1 standard deviation) salinities from the Barataria Bay N of Grand Terre Gauge (USGS site 291929089562600). From December through May the Davis Pond Freshwater Diversion structure may be operated when the 14-day moving average salinity is within or above the data range. Operations will be decreased to the minimum of 1000cfs if the moving average drops below the low trigger.*



June-November: 5ppt line

- Little Lake Bay Dos Gris Gauge
- Barataria Waterway S Lafitte and Hackberry Bay (public oyster grounds) utilized for supporting information and guidance



June-November 5ppt Line Little Lake Bay Dos Gris

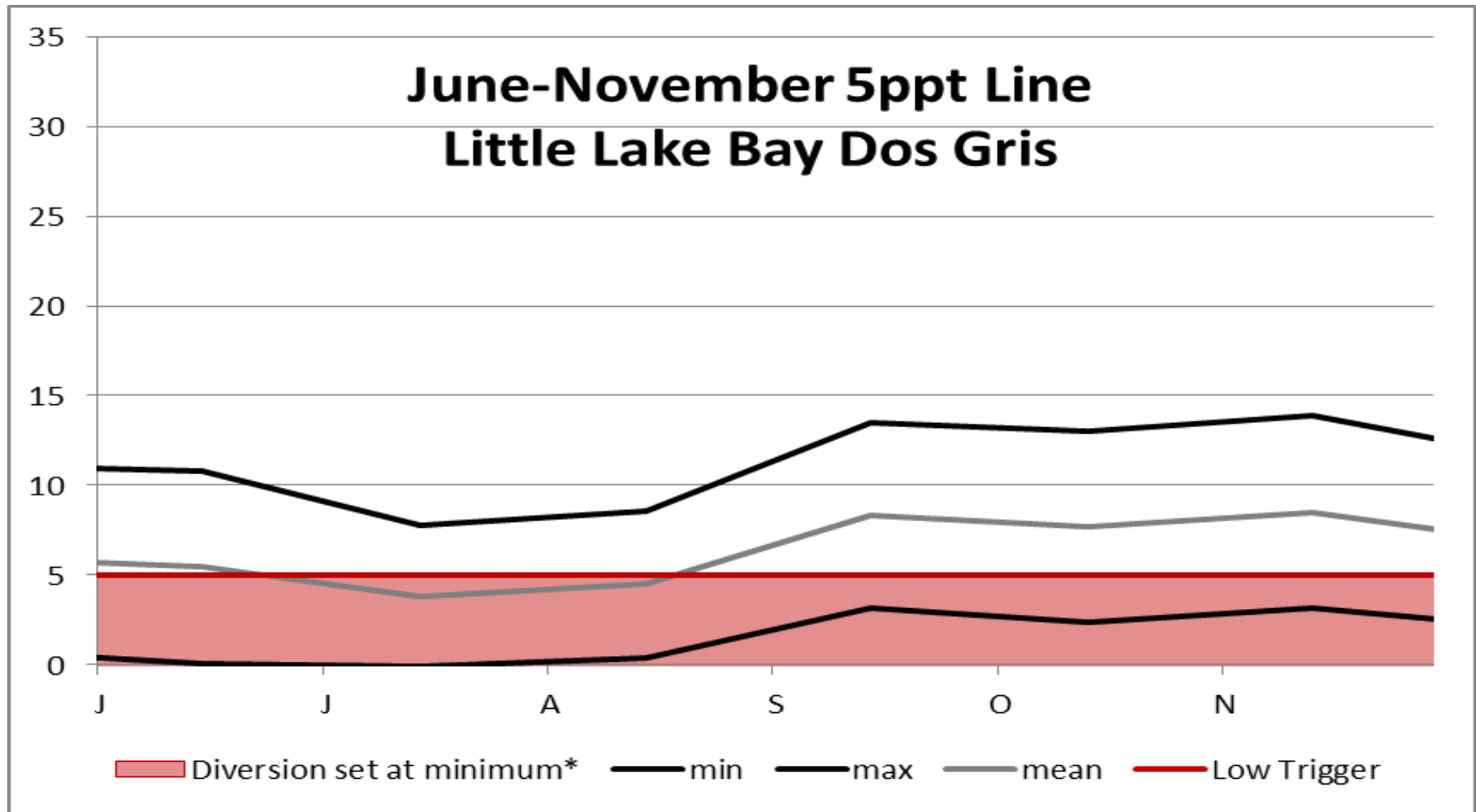


Figure 3. Long term average (± 1 standard deviation) salinities from the Little Lake Bay Dos Gris (USGS site 292800090060000). From June through November the Davis Pond Freshwater Diversion structure may be operated when the 14-day moving average salinity is within or above the data range. Operations will be decreased to the 1000cfs minimum if the moving average drops below 5ppt.*

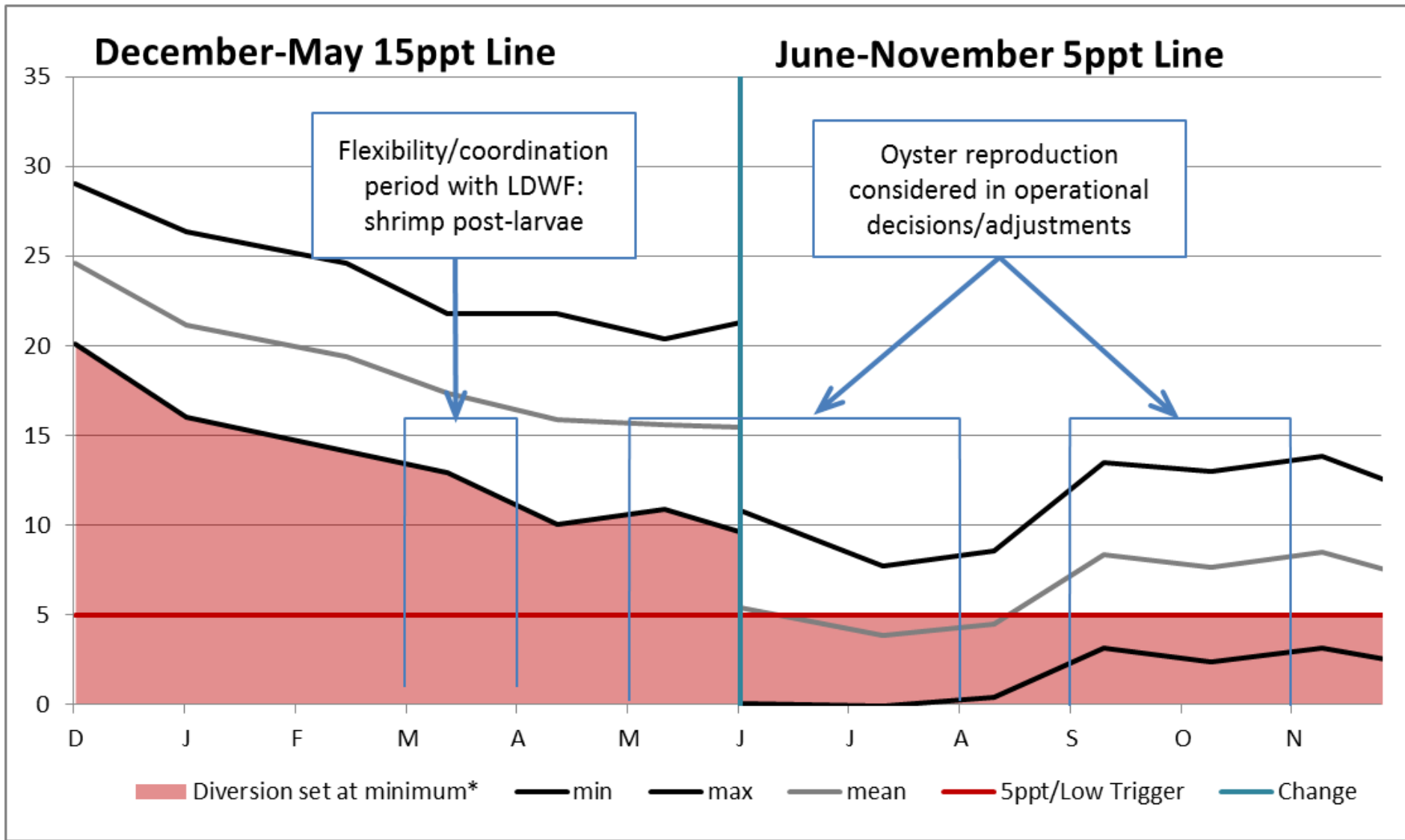


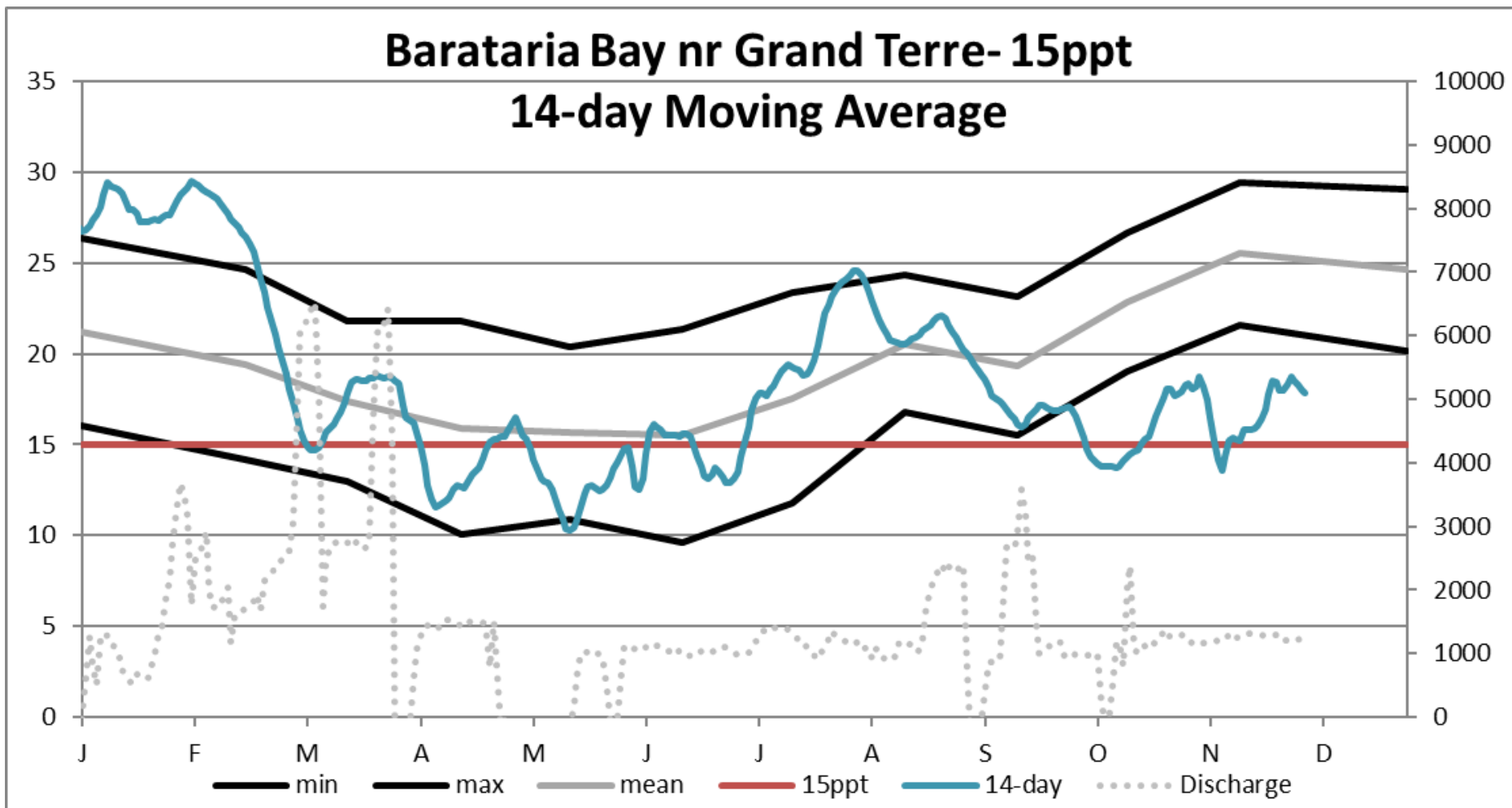
Figure 4. Long term average (+1 standard deviation) salinities from the Barataria Bay N Grand Terre Gauge (USGS site 291929089562600) from December through May, and the Little Lake Bay Dos Gris (USGS site 292800090060000) gauge from June through November. The Davis Pond Freshwater Diversion structure may be operated when the 14-day moving average salinity is within or above the data range. Operations will decrease to the minimum of 1000 cfs if the moving average drops below the low trigger. *



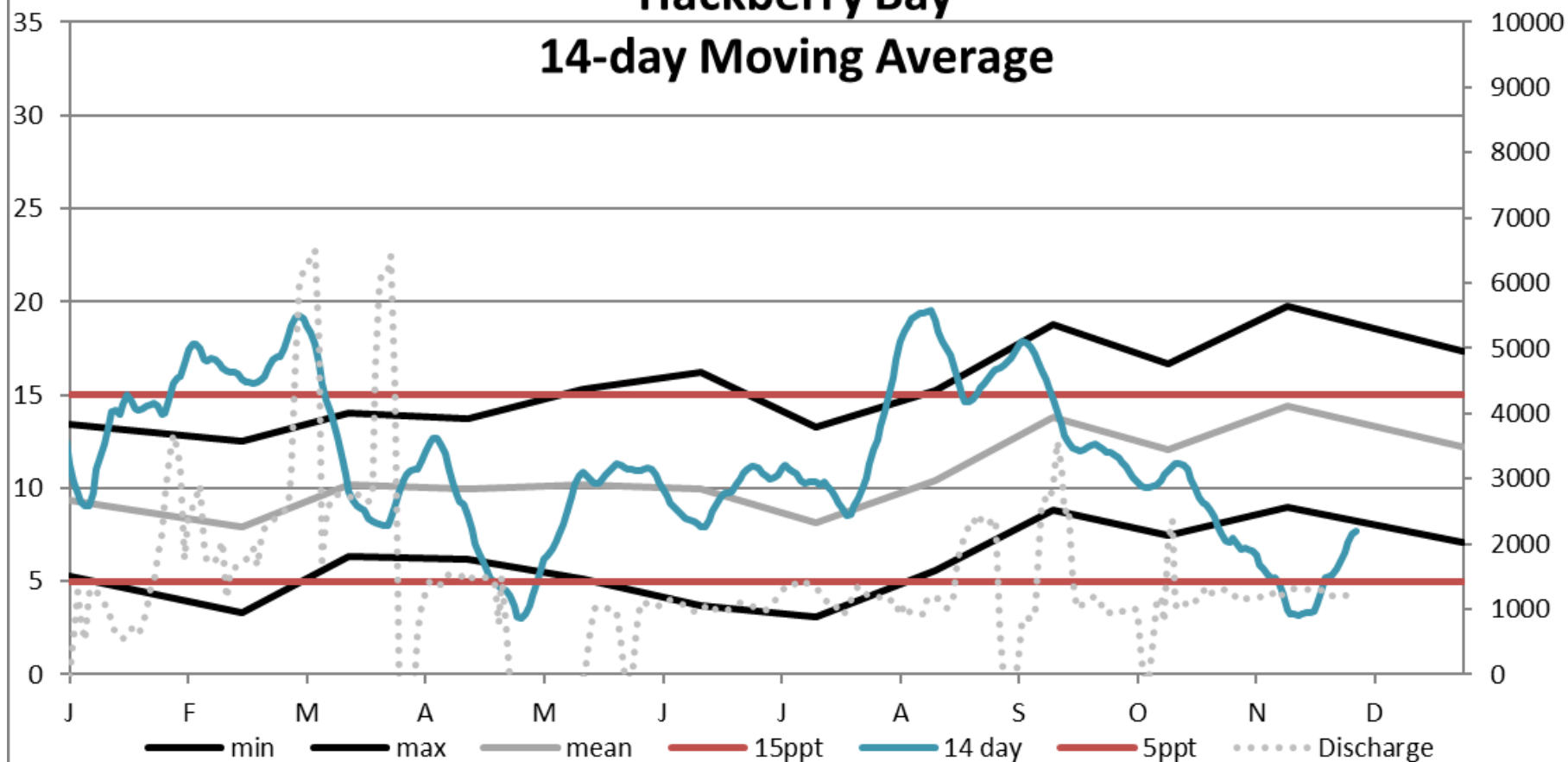
*Alternative Operations

- Coordination Periods with LDWF
 - May decrease below 1000 cfs minimum
- Education and PR visits (outside normal ops)
 - NTE 5,000 cfs, return to appropriate output within 2 hours
- Maintenance, Repair and Local issues
 - Evaluated on case-by-case basis
 - Notification to TWG members

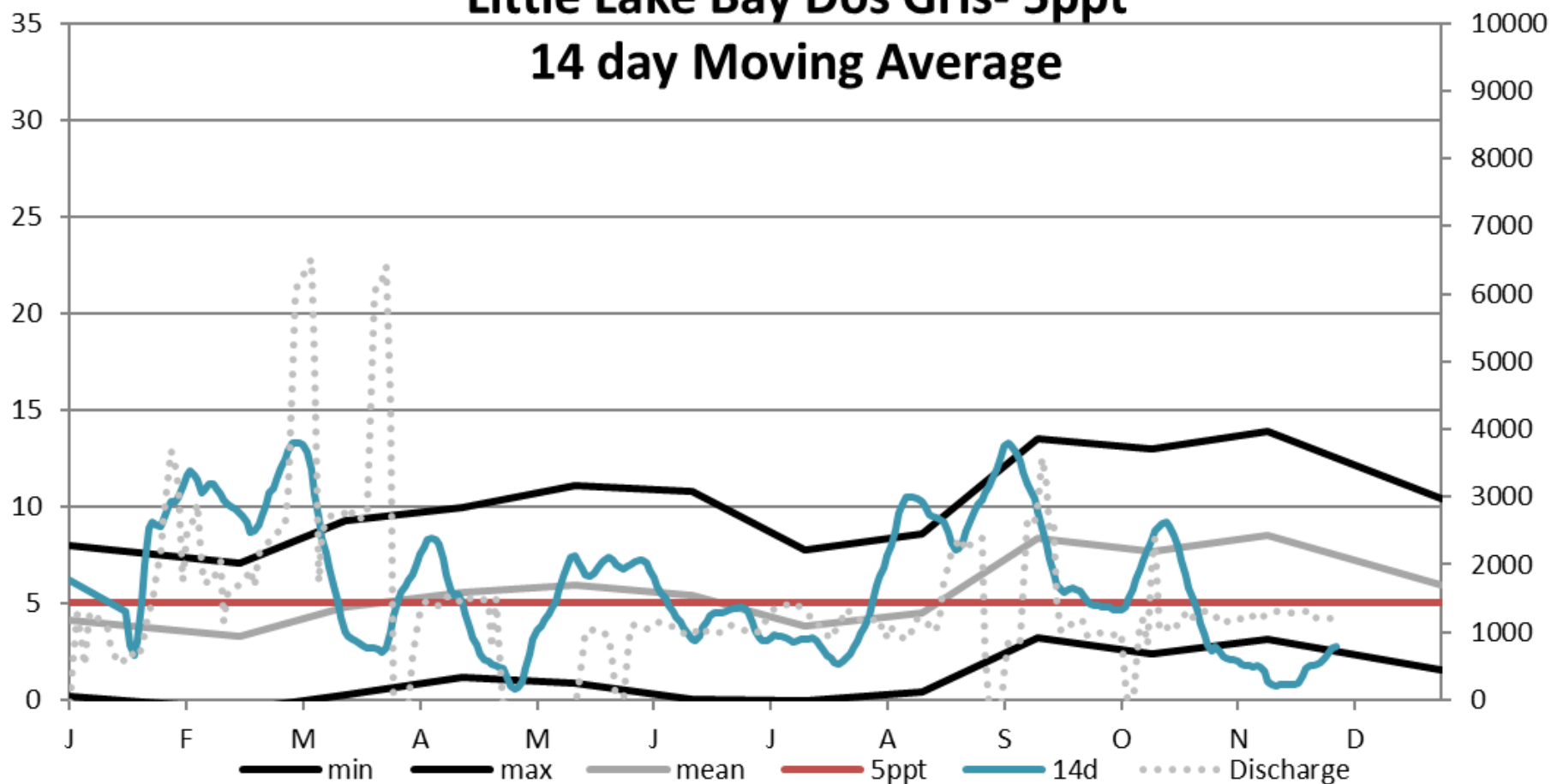
Barataria Bay nr Grand Terre- 15ppt 14-day Moving Average



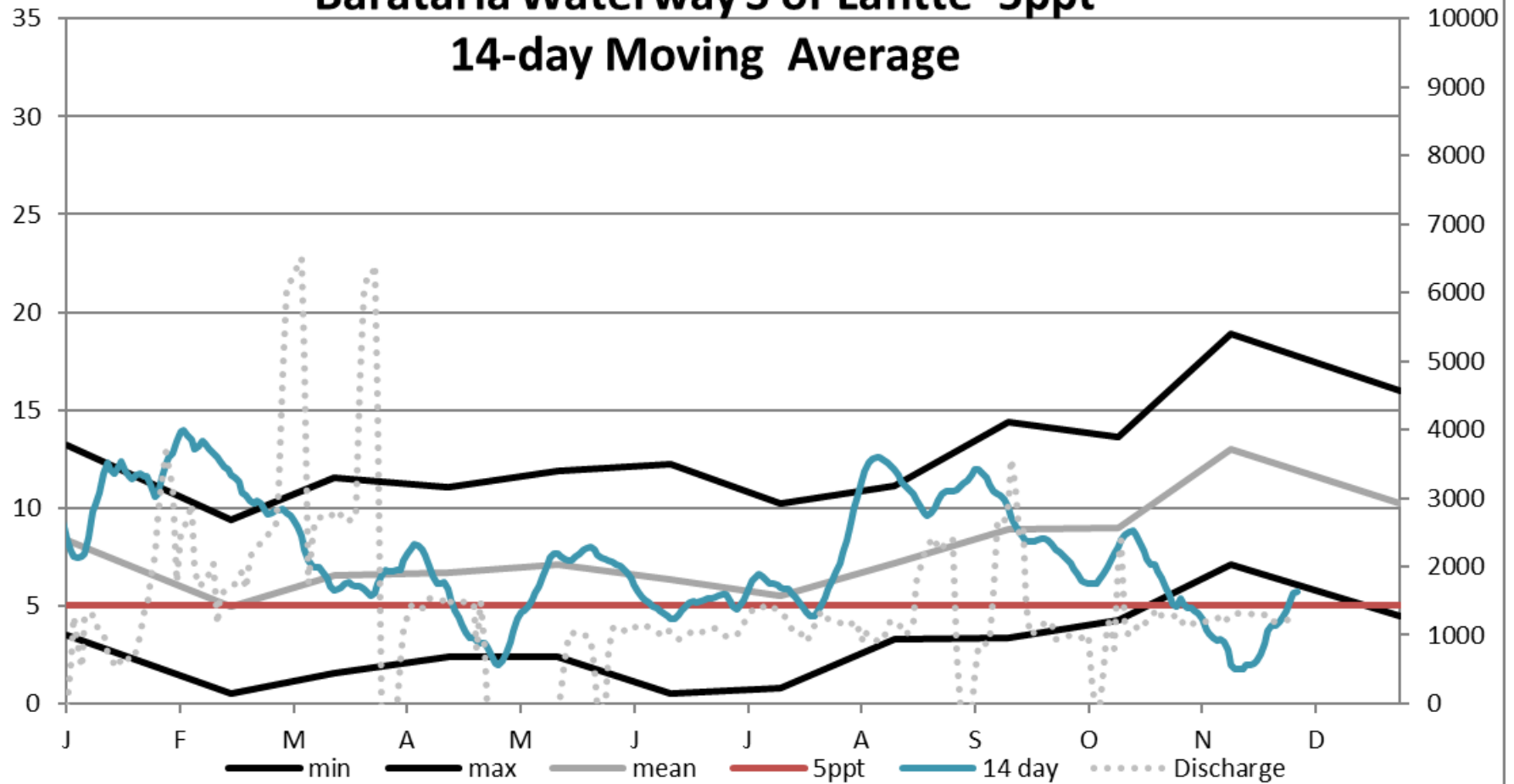
Hackberry Bay 14-day Moving Average



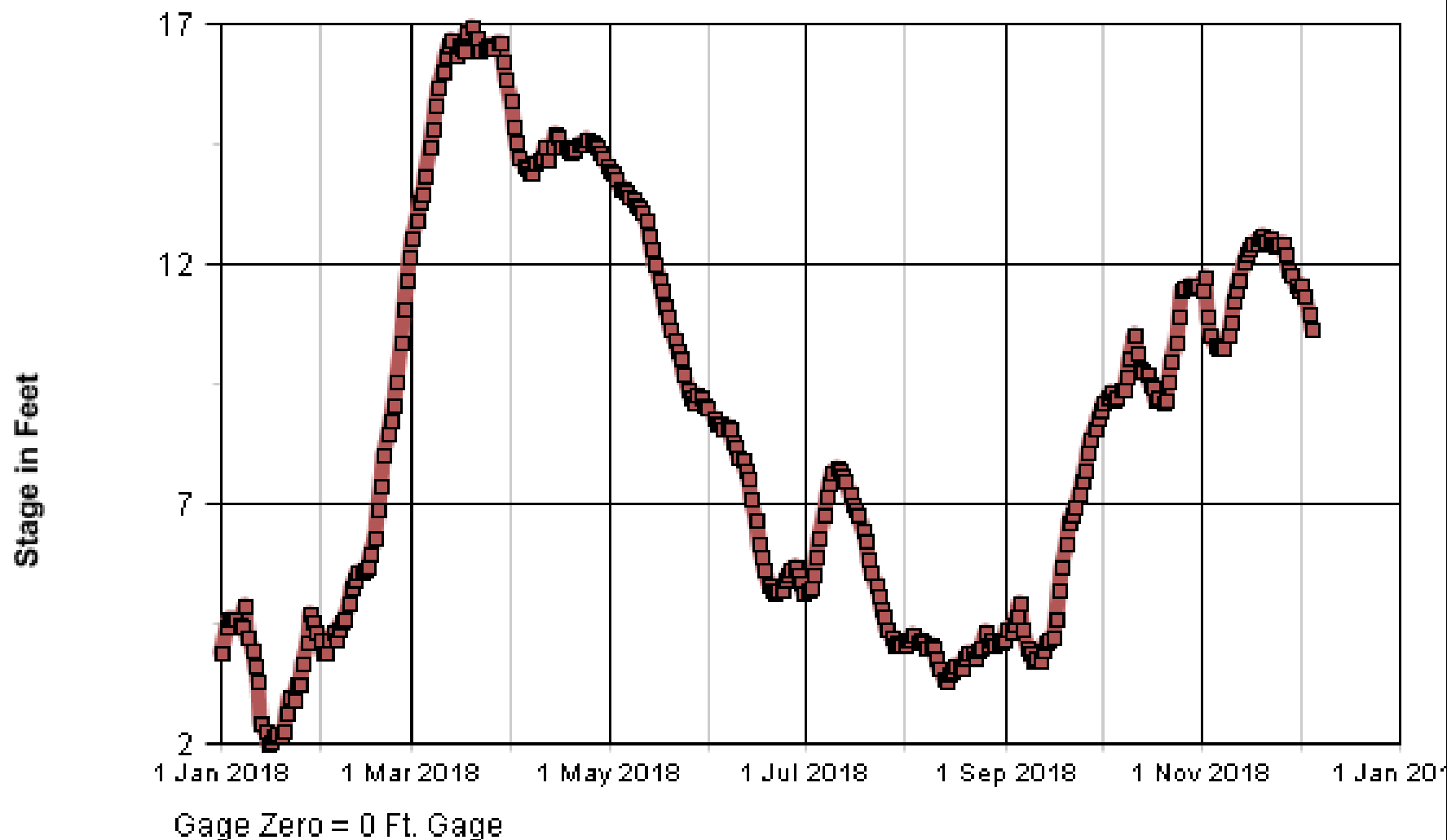
Little Lake Bay Dos Gris- 5ppt 14 day Moving Average



Barataria Waterway S of Lafitte- 5ppt 14-day Moving Average



Mississippi River at New Orleans (Carrollton) (01300)
From 01/01/2018 To 12/31/2018





Proposed 2019 Operation Plan

- TWG met 11/15/2018
- No changes to current plan were proposed



2019 Operations Plan Discussion and Vote



By-Laws Updates

- Update all references to CPRA/Executive Director, include DNR as a separate agency
- Update committee processes
 - Operational Plan Development section
- Clarify and define process for appointment of representatives


Membership:

Membership shall consist of one representative of each of the following entities:

- { Coastal Protection and Restoration Authority of La., who will serve as chairman
- La. Department of Natural Resources
- La. Department of Environmental Quality
- La. Department of Health and Hospitals
- La. Department of Wildlife and Fisheries
- Barataria Terrebonne National Estuary Program (BTNEP)
- Jefferson Parish Government
- Lafourche Parish Government
- Plaquemines Parish Government
- St. Charles Parish Government
- U.S. Army Corps of Engineers
- U.S. Environmental Protection Agency
- U.S. Fish and Wildlife Service
- U.S. National Marine Fisheries Service
- U.S. Natural Resources Conservation Service
- Marsh-property Owners from Barataria Bay Hydrologic Unit
- Marine Recreational Fisheries from Barataria Bay Hydrologic Unit
- Freshwater Recreational Fisheries from Barataria Bay Hydrologic Unit
- Oyster Fisheries from Barataria Bay Hydrologic Unit
- Shrimp fisheries from Barataria Bay Hydrologic Upper Basin Shrimp Unit
- Shrimp fisheries from Barataria Bay Hydrologic Lower Basin Shrimp Unit

Additional members may be added to the committee by a two-thirds majority vote of the committee and concurrence of the Executive Director. Members shall serve without compensation.

Defines how to add additional members, but not how a particular person is chosen as a representative of that member organization/group



Each agency/group shall designate a representative annually. For Oyster, Shrimp and Recreational Fisheries representatives, the Louisiana Oyster, Shrimp, and Finfish Task Forces (respectively) shall designate their representative annually. For Marsh and Protected Area Property Owners, the Executive Director shall annually appoint a representative. Additional members may be added to the committee by a two-thirds majority vote of the committee and concurrence of the CPRA Executive Director. Members shall serve without compensation.*

*Note: Current members at the time of the 2018 meeting are invited to continue to serve on the advisory committee, with the above policy to take effect upon each current member vacating his or her position.



By-Laws Discussion Point

- Appointment of representatives not currently associated with and agency/organization
 - Fisheries and Landowner Representatives

